



Wireless 4G modem (IM51x) setup:

1. Go online with RTU IP address, enable wireless modem and click apply.

BRODERSEN

Wireless Modem Settings

- System Overview
- Hardware Overview
- Runtime Settings
- I/O Board Settings
- System Configuration
 - Serial Ports Card
 - Network
 - Network Redundancy
 - Static routes
 - Wifi
 - Wireless Modem**
 - VPN
 - Time
 - Services
 - User Administration
- Maintenance
- Utilities
- Firewall
- DNP3 Slave
- WITS-DNP3 Slave

User name: admin
User group: Administrators
Log out
2021/08/18

CPU Temp: 58.5 °C
CPU Load: 40.0 %
Memory Usage: 36.9 %
Board Temp: 39.8 °C
Board Type: RTU32M

Security alert.
The RTU is configured to use default passwords.

Modem Connection

Enable Wireless Modem ⓘ

Access Point Name (APN): internet ⓘ
Phone Number: *99# ⓘ
Username: ⓘ ⓘ
Password: ⓘ ⓘ
 Use as default route ⓘ
Log activity to system log: ⓘ

Security Settings

Unencrypted password (PAP): ⓘ
Challenge Handshake Authentication Protocol (CHAP): ⓘ
Microsoft CHAP (MS-CHAP): ⓘ
Microsoft CHAP Version 2 (MS-CHAP v2): ⓘ
Microsoft MPPE Encryption: ⓘ

Route Settings

IP address: [] . [] . [] . [] / []

GNSS/GPS Settings

Enable GPS: ⓘ
Use GPS to synchronize time: ⓘ

Modem Connection Status

Wireless Modem	Detected
Wireless Local IP Address	10.11.7.47 ⓘ
Wireless Remote IP Address	10.64.68.39
Wireless IP Mask	255.255.255.255



2. If the Worksuite application is running then stop and start Worksuite application.



3. Worksuite function block setup:

The screenshot shows the Worksuite function block setup interface. On the left, a tree view shows the following function blocks under 'RTU32_DialUp':

- CONNECT3G ("Remote Network Access Connection via UCT-94 Modem")
- CONNECTVPN ("Remote Network Access Connection via VPN PPTP")
- CONNECTVPNEX
- DIALUP ("Dial a modem connection")
- GET3GMODEMSTAT ("Read signal strength and diverse information from the UCM-94 mo...")
- GETCOMMSTATE ("Get communication status")
- GETDEVICENAME ("Convert a COM port name to device name")
- GETDRVACTIVE ("Get COMx currently active driver")
- GETDRVHANDLE1 ("Get handle for COMx, driver y")
- GETDRVSTATE ("Get driver status")
- HANGUP ("Hang-up a modem connection")

On the right, two configuration panels are shown:

Inst_GET3GMODEMSTAT

.ModemEnabled	TRUE
.StatusPortOpen	TRUE
.ModemRegistered	TRUE
.SignalStrength_0_31	18
.SignalStrength_0_5	3
.NetworkRegistration	1
.NetworkService_0_2	16
.NetworkService_0_4	16
.Operator	'TELMORE TELMORE'

Inst_CONNECT3G

.Connected	TRUE
.Connecting	FALSE
.ConnectionNumber	1
.SecondsToNextConnection	0
.Status	0
ResetModem	FALSE
DoModemStat	TRUE
DoConnect	TRUE

4. Remove default gateway addresses from RTU LAN1 & 2 if it is given. Because wireless modem is running in a default mode and will have conflict with default gateway addresses of LAN 1&2.

Local Area Network (LAN) settings

This section displays a summary of your LAN network settings. These settings indicate the current configuration of your LAN ports.

Network Settings LAN1	eth0
Obtain an IP Address via DHCP	DISABLED
Local IP Address	192.168.0.1
Subnet mask	255.255.255.0
Default gateway	
Prefered DNS Server	
Alternate DNS Server	
MAC address	F8:DC:7A:4B:E0:F5
RX/TX Bytes	0.6/0.2 MiB

Network Settings LAN2	eth1
Obtain an IP Address via DHCP	ENABLED
Local IP Address	10.0.0.18
Subnet mask	255.255.255.0
Default gateway	10.0.0.1
Prefered DNS Server	10.0.0.3
Alternate DNS Server	
MAC address	F8:DC:7A:4B:E0:F4
RX/TX Bytes	24.1/28.5 MiB